INDEX TO VOLUME 78

Compiled by L. R. WOLFE

(New generic, specific and subspecific names are printed in heavy face type.)

Abnormality, 273, 275, 674 Acanthis flammea, 528-531 flammea flammea, 49, 324 hornemanni exilipes, 50 Accipiter cooperii, 619 gentilis albidus, 52 nisus nisosimilis, 52 striatus, 619 Accipitres, 262 Accipitridae, 399, 400, 405, 418 Acridotheres tristis, 633 Acrulocercus braccatus, 250 Actitis hypoleucos, 50 macularia, 191, 620 Aechmophorus occidentalis, 615 Aegolius acadicus, 634 funereus magnus, 53 Aëronautes saxatalis, 621 Aethia cristatelia, 48, 321 pusilla, 53, 321 pygmaea, 48 Agapornis, 489, 498 Agelaius phoeniceus, 270, 474, 488, 489, Aimophila, 631 Aix sponsa, 618 Alabama, 640 Alaska, 257, 305-326, 327-342 Alauda arvensis pekinensis, 50 Albatross, Black-browed, 425 Black-footed, 51 Laysan, 310 Short-tailed, 51, 310 Yellow-nosed, 425 Albinism, 99 Alcedinidae, 399, 400, 409, 419 Amadon, Dean, relationships of the Cinereous Harrier, 256 Amandava amandava, 497 angolensis, 497 subflava, 497 Amazilia amabilis, 418 edward, 408 tzacatl. 408

Amazona autumnalis, 418

Amblycercus holosericeus, 416, 489 American Journal of Clinical Nutrition, Symposium on energy balance, (rev.), A. O. U., amendment of the by-laws, 225 awards, 226 committees, 1960-1961, 238 officers and trustees, 237 reports of committees, 227 report of committee on bird protection, 244-255 report of research committee, 242 resolutions, 235 seventh-eighth stated meeting, 225-237 treasurer's report for the period August 1, 1959-July 1, 1960, 239-241 Amphispiza, 631 belli, 626 Anabacerthia striaticollis, 411 Anas acuta, 26, 28, 47, 313, 338, 393, 616 auklandica, 36 boschas, 11 carolinensis, 313, 617 castanea, 36 crecca, 55 crecca crecca, 47 crecca nimia, 308, 313 clypeata, 28 cvanoptera, 617 diazi, 3, 17, 21, 23-37, 40, 616, 670-672 diazi diazi, 3, 39 diazi novimexicana, 3, 39, 429-431, discors, 418, 617 falcata, 51, 55 formosa, 51, 441 fulvigula, 5, 8, 21, 23-25, 36, 37, 40. fulvigula fulvigula, 3, 39 fulvigula maculosa, 3, 6, 39, 670, 671 fulvigula rubripes, 8 maculosa, 21, 23-25, 36, 37, 40 melleri, 32 novimexicana, 3, 21, 23, 24, 37, 40 obscura, 5, 8

obscura fulvigula, 5

platyrhynchos, 11, 17, 23, 25, 26, 30, 37-40, 308, 312, 338, 429-431, 615,

670-673

platyrhynchos conboschas, 673

platyrhynchos diazi, 671 platyrhynchos fulvigula, 671

platyrhynchos platyrhynchos. 12, 31,

39, 47, 670-673 platyrhynchos rubripes, 671

poecilorhyncha superciliosa, 26

querquedula, 51

rubripes, 3, 8, 17, 23-25, 36, 38-40, 670-673

strepera, 51, 55, 273, 616

tristis, 8, 672

Anatidae, 28, 399, 400, 405, 418

Anatomy, 109, 261-263, 269-271, 273, 275, 355-365, 455, 633, 659

275, 355-305, 455, 035, 05 Aphings 01 300 300 404

Anhinga, 91, 398, 399, 404

Anhinga anhinga, 404

rufa, 91

melanogaster, 91

Anhingidae, 399, 400, 404

Ani, Greater, 400, 407

Groove-billed, 60, 497, 573

Smooth-billed, 60, 398, 400, 407

Anoüs minutus, 423, 424

minutus americanus, 423, 424

stolidus, 60, 423, 424

tenuirostris, 423-425

tenuirostris americanus, 423, 424

tenuirostris atlanticus, 423, 424

Anser albifrons, 338

albifrons frontalis, 49

fabalis serrirostris, 49

Antbird, Eicolored, 411

Chestnut-backed, 419

Dusky, 411

Jet, 419

White-bellied, 419

Anthracothorax nigricollis, 418

Anthus cervinus, 54

gustavi commandorensis, 49

hodgsoni yunnanensis, 54

spinoletta, 329

spinoletta japonicus, 54, 323

spinoletta japon.cus, 34, 323 spinoletta pacificus, 323, 324

Antshrike, Barred, 411

Fasciated, 398, 411

Great, 419 Slaty, 419

Ant-Tanager, Dusky-tailed, 417

Red-crowned, 421

Antthrush, Black-faced, 411

Antvireo Plain, 411

Aphelocoma coerulescens, 622

Apus pacificus, 55

Aquila chrysaetos, 434, 619

Aracari, Collared, 399, 409, 637

Fiery-billed, 398, 410

Aramides cajanea, 405

Archilochus colubris, 517, 525

Ardea herodias, 615

Ardeidae, 399, 400, 401, 404

Arenaria interpres, 319

interpres interpres, 50

Argentina, 1

Arizona, 99

Arn-Willi, Hans, Biologische Studien

am Alpensegler, (rev.), 445

Arremonops conirostris, 417, 637

Asio flammeus, 186, 322

flammeus, flammeus, 49

Asyndesmus lewis, 621

Atkeson, Thomas Z., a White-winged

Scoter specimen from Alabama, 640

Atlapetes assimilis, 421

brunnei-nucha, 421 Attila, Bright-rumped, 398, 402, 412

Attila, 160

spadiceus, 412

Auklet, Crested, 48, 321

Least, 53, 321

Parakeet, 48, 321

Rhinoceros, 53, 257

Whiskered, 48

Aulacorhynchus prasinus, 409

Avadavat, 497

Avocet, 185

American, 620

Awards, 1960, Brewster Memorial, 226;

Marcia B. Tucker, 226; Van Tyne

Memorial, 226

Aythya affinis, 93, 405, 618

americana, 93, 618

collaris, 618, 638

ferina, 51

fuligula, 47, 638

marila, 47, 55, 314 valisineria, 618

Baldwin, D. H., see Woodford, James and-

Bananaquit, 61

Banko, Winston E., the Trumpeter Swan—its history, habits, and population in the United States, (rev.), 103

Barbet, Red-headed, 398, 409

Bartholomew, George A., see Howell, Thomas, R., and-

Bartholomew, George A., and Richard E. MacMillen, water economy of the California Quail and its use of sea water, 505-514

Basileuterus culicivorus, 415 fulvicauda, 421

melanogenys, 421 Becard, White-winged, 419

Beer, James R., winter feeding patterns in the House Sparrow, 63-71

Behavior, 30, 61, 97, 98, 110-113, 125-137, 145-166, 179-215, 221, 261, 274, 290-292, 366-371, 373, 433, 435, 442, 455, 473-504, 575-580, 659-661

Bellbird, Bearded, 150, 153, 156, 160 Black-winged, 150 Mossy-throated, 150

White, 150-161

Benoit, J., Seminaire sur l'Histophysiologie du Complexe hypothalamohypophysaire, (rev.), 655

Berger, Andrew J., Bird Study, (rev.), 652

Bergman, G., K. O. Donner, and L. von Hartman, Proceedings XII international ornithological congress, (rev.), 104

Biaggi, Virgilio, records of two migrant waterfowl for Puerto Rice, 425

Biology, 115-117, 176-219, 294, 379-388, 460-462, 532-550, 664

Bird, Calf, 150-161

Capuchin, 150-161 Greenheart, 150-161

Bird, R. D., Ecology of the aspen parkland of western Canada in relation to land use, (rev.), 656 Bittern, American, 615 Least, 398, 404

Blackbird, 129

Brewer's, 433, 434, 487, 493, 625 Red-winged, 270, 474, 475, 478, 483, 484, 486-493, 495, 500, 501

Rusty, 270

Yellow-headed, 493, 610, 620, 625

Bluebird, 261 Mountain, 624

Bluetail, Red-flanked, 54

Bobolink, 518, 523

Bock, Walter J., The palatine process of the premaxilla in the Passeres, (rev.), 101; salivary glands in the Gray Jays (Perisoreus), 355-365

Bolborhynchus lineola, 418 Bombycilla cedrorum, 271, 489

garrulus centralasiae, 54

Bond, James, Birds of the West Indies, (rev.), 447

Booby, Brown, 59

Red-footed, 59, 573-594

Borror, Donald J., and William W. H. Gunn, Songs of Fringillidae of eastern and central North America. vol. 6. Finches, (rev.), 107; Sounds of nature, vols. 1-6, (rev.), 452

Botaurus lentiginosus, 615

Brachyramphus marmoratum, 53

Brackbill, Hervey, duetting by paired Brown-headed Cowbirds, 97; shadow boxing by Brown-headed Cowbirds, 98

Brambling, 50, 324

Brandt, John H., new records in Micronesia for the Bar-tailed Godwit and Black-crowned Night Heron, 638

Brant, 427, 428

American, 428 Black, 51, 427, 428

Branta bernicla bernicla, 428

bernicla hrota, 427, 428 bernicla nigricans, 51

canadensis, 55, 338, 434

canadensis, 55, 556, 454

canadensis hutchinsii, 99

canadensis leucopareia, 99, 308, 311

canadensis parvipes, 99, 100

canadensis ssp., 47, 99

leucopsis, 370
nigricans, 427, 428
ruficollis, 260
Brazil, 646
British Honduras, 573-594
Brodkorb, Pierce, notes on fossil tinamous, 257
Brotogeris jugularis, 407, 637
Brush-Finch, Chestnut-capped, 421
Gray-striped, 421
Bryant, Charles E. W., obituary of, 471
Bubo virginianus, 621, 641
Bubulcus ibis, 94, 404, 640
Bucconidae, 399, 400, 409
Bucephala albeola, 51, 314, 389-396, 619

clangula, 55, 314 clangula clangula, 51 islandica, 338 Buechner, H. K., review by, 656 Bull, John L., wintering Tennessee

Warblers, 263; Yellow-nosed Albatross of the coast of Long Island, New York, 425

Bullfinch, 54 Lesser Antillean, 62

Bunting, Gray, 54 Indigo, 123, 421, 519, 524, 526, 643,

645 Painted, 489 Reed, 54 Rustic, 54, 325 Snow, 49, 323, 325

Yellow-breasted, 54 Bush-Tanager, Common, 400, 417 Buss, Irven O., review by, 106

Butalis, pallens, 323 Buteo albonotatus, 646

jamaicensis, 433, 619 lagopus, 338 lagopus menzbieri, 52

magnirostris, 418 platypterus, 405 swainsoni, 434

Butorides virescens, 59, 214

Cacicus microrhynchus, 416 vitellinus, 416 Cacique, Prevost, 489, 495 Scarlet-rumped, 416 Yellow-billed, 416 Yellow-rumped, 398, 400, 416

Calcarius lapponicus, 274, 318, 327-342 lapponicus alascensis, 324, 327-340 lapponicus coloratus, 49, 336, 339

lapponicus lapponicus, 337 Calidris, 202, 205, 208, 209

alba, 205, 209 alpina, 208

bairdii, 196-205, 208, 209

canutus, 208

(Ereunetes) pusilla, 208

furruginea, 195, 208, 209 fuscicollis, 208, 209 maritima, 191, 208 melanotos, 208, 209

minutilla, 191, 208

pusillus, 191, 208 temminckii, 123, 208

tenuirostris, 52 California, 260, 426

Camptostoma pusillum, 420

Campylopterus hemileucurus, 408

Campylorhynchus, 498 brunneicapillus, 498

Canada, Alberta, 271, 427 Manitoba, 90 Northwest Territory, 176-219

Northwest Territory, 176-219 Ontario, 97 Saskatchewan, 220-224

Canary, Domestic, 488 Capitonidae, 409

Caprimulgidae, 399, 400, 402, 408

Caprimulgus ridgwayi, 571 vociferus, 571

Capsiempis flaveola, 413

Caracara, 99 Caracara cheri

Caracara cheriway, 99 Cardinal, 261, 489, 530

Carpodacus cassinii, 625 erythrinus grebnitzkii, 54

mexicanus, 510, 625 purpureus, 266, 516

Carter, Charles E., unusual feeding habit of Boat-tailed Grackle, 97

Casmerodius albus, 404 Cassidix, 493

mexicanus, 97, 487, 488

Cathird, 129, 499 Cathartes aura, 434, 619 Cathartidae, 399, 400, 405 Catherpes mexicanus, 623

Catoptrophorus semipalmatus, 620

Centropus sinensis, 436

Centurus aurifrons, 369 carolinus, 261, 369 pucherani, 410, 637

rubricapillus, 410

Cepphus carbo, 53 columba, 321 columba columba, 321

columba kaiurka, 48, 321

Cercomacra

nigricans, 419 tyrannina, 411

Cereopsis n. hollandiae, 370 Cerorhinca monocerata, 53, 257

Ceryle torquata, 419

Chachalaca, Chestnut-winged, 405

Chaetura pelagica, 489, 525

Charadrius, 207, 208 alexandrinus, 55, 207

alexandrinus alexandrinus, 52

dubius, 190

hiaticula hiaticula, 189

hiaticula semipalmatus, 190

melodus, 207

mongolus stegmanni, 47 morinellus, 52

vociferus, 185, 489, 620 Chat, Yellow-breasted, 489

Chen caerulescens atlanticus, 72 caerulescens caerulescens, 72-89 hyperborea, 434

hyperborea hyperborea, 51, 72-89

Chickadee, 261

Black-capped, 53, 129, 532-550 Mountain, 623

Chiroxiphia pareola, 160

Chisholm, Alec H., The romance of the Lyrebird, (rev.), 654

Chlidonias niger, 620

Chloris chloris, 530

Chloroceryle aenea, 409

amazona, 409 americana, 409

Chlorophanes spiza, 414, 638

Chlorospingus ophthalmicus, 417

Chlorostilbon assimilis, 418

Chlorura chlorura, 625

Chondestes grammacus, 626

Chordeiles acutipennis, 408

minor, 179, 621

Chura, Nicholas J., behavior of a California Gull devouring a juvenile coot, 271

Ciccaba nigrolineata, 418

Circus assimilis, 256

buffoni, 256

cinereus, 256

cyaneus, 256, 317, 338, 434, 619

cyaneus hudsonius, 256

Clangula hyemalis, 47, 314

Claravis, 372, 374 pretiosa, 406

Cobb, Stanley, review by, 284-286

Coccothraustes coccothraustes japonicus,

Coccyzus americanus, 94, 418 minor, 60

Cochleariidae, 399, 400, 405

Cochlearius cochlearius, 405

Cock of the Rock, 158 Cockatiel, 488, 494, 495, 498

Coereba flaveola, 61

Coerebidae, 399, 400, 414, 636, 638

Colaptes, 389

auratus, 432, 642

cafer, 621 Colinus virginianus, 94

Collias, Nicholas E., see Nice, Margaret M., and—; review by, 649-652

Collins, Charles T., tail molt of the Saw-whet Owl, 634

Collins, Henry Hills, Jr., The bird watcher's guide, (rev.), 658

Columba albilinea, 406

cruziana, 377

leucocephala, 573

livia, 488, 530

nigrirostris, 637

squammata, 377 squamosa, 60, 377

Columbidae, 60, 399, 400, 402, 406, 418, 637

Columbigallina, 372, 373, 377

bucklevi, 373, 375

cruziana, 373, 375, 376

minuta, 373-375

passerina, 60, 373-376

talpacoti, 373, 375, 376, 406

Columbina, 372-377

buckleyi, 377 cruziana, 377

inca, 377

minuta, 377

passerina, 377 picui, 373-377

squammata, 377

strepitans, 377

talpacoti, 377

Commander Islands, 44-56

Connell, Clyde E., see Odum, Eugene P., and —

Contonus lugubris, 420

sordidulus, 621

Cooch, Graham, ecological aspects of the Blue-Snow Goose complex, 72-89

Coot, American, 620, 640, 641

Copulation, 220, 487, 583 Coragyps atratus, 405

Cormorant, Double-crested, 401, 403 Olivaceous, 398, 401, 403, 404

Pallas, 47

Pelagic, 46, 310 Cornell University Records, Bird songs in your garden, (rev.), 656

Corvidae, 360, 364, 420

Corvus brachyrhynchos, 129, 359, 622

corax, 322, 434, 622 corax kamtschaticus, 49

corone, 359

corone orientalis, 53

frugilegus, 359, 364 monedula, 496

Cotinga, Blue, 637

Turquoise, 398, 412 Cotinga nattererii, 637

ridgwayi, 412 Cotingidae, 150-161, 399, 400, 402, 412, 419, 637

Cottam, Clarence, et al., report to the American Ornithologists' Union by committee on bird protection, 1960, 244-255

Coturnicops noveboracensis, 639

Coturnix coturnix, 397, 405

Cowbird, 129, 270

Brown-headed, 97, 98, 162-166, 222, 223, 266-268, 473-504, 625, 645

Giant, 492

Red-eyed, 473, 488, 492, 495, 502

Cracidae, 399, 400, 405

Crake, White-throafed, 400, 401, 406

Crane, Lesser Sandhill, 641

Sandhill, 52, 318 Whooping, 171, 246

Cranioleuca erythrops, 411

Crocethia alba, 52, 208, 320

Crossbill, Red, 54, 614, 625

Crotophaga ani, 59, 60, 407

major, 407 sulcirostris, 60, 497, 573

Crow, 129

Carrion, 53

Common, 622

Hawaiian, 250 Crow-pheasant, 436

Crypturellus soui, 404

Cuba, 95-97

Cuckoo, 53

European, 473

Mangrove, 60 Oriental, 53

Squirrel, 407

Striped, 418

Yellow-billed, 94, 418

Cuculidae, 399, 400, 407, 418

Cuculinae, 473

Cuculus canorus, 473

canorus telephonus, 53

saturatus horsfieldi, 53

Curlew, Australian, 52

Eskimo, 259

European, 186

Least, 259, 260

Long-billed, 259, 260

Curry-Lindahl, Kai, Ecological studies on mammals, birds, reptiles, and amphibians in the eastern Belgian Congo, (rev.), 105; Våra Fåglar i Norden, vol. II, (rev.), 106

Cyanerpes cyaneus, 415, 636, 638

lucidus, 415

Cyanochen cyanopterus, 370

Cyanocitta, 362

coerulescens, 359

cristata, 129, 261, 359, 489 stelleri, 359, 622, 634-636 Cyanocompsa cyanoides, 421 Cyanocorax affinis, 420 yncas, 635 Cyanolyca mirabilis, 635 Cyclarhidae, 399, 400, 414 Cyclarhis gujanensis, 414 Cyclorrhynchus psittacula, 48 Cygnopsis cygnoides, 51 Cygnus columbianus, 51 olor, 434 Cyclorrhynchus psittacula, 321 Cymbilaimus lineatus, 411 Cyphorhinus phaeocephalus, 414

Dacnis, Blue, 638
Scarlet-thighed, 415
Dacnis, cayana, 638
venusta, 415
Damophila julie, 408
Dater, Eleanor E., see Fisher, Harvey
I., and —
Davis, Harry T., see Wray, David L.,

Davis, T. A. W., nests of Empidonomus varius, Pitangus lictor, and Myiozetetes cayanensis, 276

Davis, William B., Woodcock nesting in Brazos County, Texas, 272

Deignan, Herbert G., proceedings of the seventy-eighth stated meeting of the American Ornithologists' Union, 225-237; type specimens of birds in the United States National Museum, (rev.), 656

Dendrocincla fuliginosa, 419 homochroa, 419 Dondrocolaptes certhia, 419 Dendrocolaptidae, 399, 400, 402, 410,

419
Dendrocopos major camtschaticus, 53
pubescens, 261, 547
scalaris, 489
villosus, 261, 410, 621
Dendrocygna bicolor helva, 425

Dendroica aestiva, 421 auduboni, 624

castanea, 519 coronata, 261, 338, 489

discolor, 643 dominica stoddardi, 640 fusca, 421 graciae, 551-566, 624 graciae decora, 551, 555, 557-565 graciae graciae, 551-553, 557 graciae ornata, 552, 554, 562, 563, 565 graciae remota, 554, 555, 557-565 GRACIAE YAEGERI, 551-553, 555, 557-565 kirtlandii, 162-166, 381 palmarum, 385 pensylvanica, 415 petechia, 61, 440, 499, 624 plumbea, 61 striata, 499 virens, 415 virens virens, 427 Devitt, O. E., an example of the whis-

Devitt, O. E., an example of the whisper song of the Gray Jay (Perisoreus canadensis), 265

Dicaeum, 368 Dichromatism, 440

Dickerman, Robert W., hybrids among the fringillid genera junco-zonotrichia and melospiza, 627-632

Dickerman, Robert W., and Forrest B. Lee, Somateria mollissima v. nigra in Minnesota, 260

Dillon, Olan W., Jr., recovery of a crippled Gadwall, 273

Dingle, Edward von Siebold, Dendroica dominica stoddardi from South Carolina, 640

Diomedea, 262, 263 albatrus, 51, 310 chlororhynchos, 425 immutabilis, 310 melanophris, 425 nigripes, 51 Diseases, 113, 456, 642

Distribution, 1-15, 44-56, 59-62, 72, 92, 94-97, 99, 113, 257-260, 264, 265, 271, 272, 292, 305-326, 327-342, 368, 379, 423, 425-427, 441, 457, 554-557, 638-640, 646, 661

Dolichonyx oryzivorus, 518, 523 Donner, K. O., see Bergman, G., et al. Dotterel, 52 Dove, Blue Ground, 406

- Buckley Ground, 377 Common Ground, 377
- D'Orbigny Ground, 377 Gray-chested, 406
- Ground, 60 Inca, 377, 488
- Minute Ground, 377
- Mourning, 171, 275, 488, 494, 502, 510, 512, 513, 620, 674
- 510, 512, 513, 620, 674 Picui Ground, 377
- Rock, 488, 494
- Ruddy Ground, 377, 406
- Rufous-naped, 407
- Scaled, 377 White-tipped, 418
- Zenaida, 60
- Dowitcher, Long-billed, 620
- Drent, Rudolf H., on the supposed nesting of the Rhinoceros Auklet near Metlakahtla, Alaska, 257
- Drepanidae, 369
- Drury, William H., Jr., the breeding biology of shorebirds on Bylot Island, Northwest Territories, Canada, 176-219
- Dryocopus lineatus, 410
- Duck, American Widgeon, 51, 428, 618
 - Australian Gray, 26, 27 Baikal Teal, 51, 441
 - Baldpate, 418
 - Black, 3-40, 670-674
 - Blue-winged Teal, 418, 617, 618
 - Brown Teal, 36
 - Bufflehead, 51, 314, 389-396, 619 Canvasback, 171, 246, 614-618
- Chestnut-breasted Teal, 36
- Cinnamon Teal, 617
- Common Goldeneye, 51, 314 Common Pochard, 51
- Common Teal, 47, 308, 313
- Crested, 370 Dusky, 8
- European Widgeon, 49, 313, 428
- Falcated Teal, 51
- Florida, 3-40, 672, 673 Fulvous Tree, 425
- Gadwall, 28, 29, 51, 273, 616
- Garganey, 51
- Greater Scaup, 47, 314
- Green-winged Teal, 313, 614, 617

- Harlequin, 47, 314
- Hawaiian, 250
- Lesser Scaup, 93, 405, 618
- Mallard, 3-40, 47, 308, 312, 428-431,
- 614-616, 670-674 Mallard x Pintail, 616
- Meller's, 32
- Mexican, 3-40, 616, 671, 673
- Mottled, 3-40, 670-673
- New Mexican, 3-40, 428-431
- New Mexican x Mallard, 616
- Oldsquaw, 47, 178, 314
- Pintail, 26-29, 47, 313, 393, 612, 614-
- Redhead, 93, 246, 614, 618
- Ring-necked, 618, 638
- Ruddy, 93, 246, 619
- Shoveler, 28, 29, 47, 314, 618
- Tufted, 47, 638 Wood, 618
- Duetting, 97
- Dumetella carolinensis, 129, 499
- Dunlin, 50, 208, 209, 319
- Dyer, William A., see Walkinshaw,
- Lawrence H., and -
- Dysithamnus mentalis, 411
- Eagle, Bald, 47, 170, 265, 313, 315, 316 Bateleur, 498
 - bateleur, 498
 - Golden, 434, 619
 - Gray Sea, 52, 317
- Steller's Sea, 52
- Eckelberry, Don R., the White-eared Puffbird, 1
- Ecology, 63-89, 114, 176-215, 220, 293, 458-460, 511-513, 554-557, 568, 662
- Egg tooth, 275, 674
- Egg-white proteins, 27-30
- Egret, Cattle, 94, 398, 404, 640
- Common, 399, 401, 403, 404
- Reddish, 248
- Snowy, 398, 401, 404, 615 Eider, Common, 47, 260, 308, 314
- King, 49
- Steller's, 49
- Eisenmann, Eugene, reviews by, 107, 283, favorite foods of neotropical birds: termites and cecropia catkins, 636-638

- Elaenia, Greenish, 413 Lesser Antillean, 61
 - Mountain, 413
- Elaenia frantzii, 413, 420
- martinica, 61 Elanus leucurus majusculus, 442
- Elvira chionura, 418
- Emanuel, Victor L., another probable record of an Eskimo Curlew on Galveston Island, Texas, 259
- Emberiza, 631
 - aureola kamtschatica, 54
 - rustica latifascia, 54, 55, 325
 - schoeniclus pyrrhulina, 54 variabilis, 54
- Embryology, 109, 455, 659
- Emerald, Garden, 418 White-tailed, 418
- Emlen, John T., Jr., see Schaller, George B., and —; see Kendeigh, S. C. et al.
- Empidonax flavescens, 413
- flaviventris, 266-268, 413
- minimus, 145-149, 267, 268
- oberholseri, 621
- traillii, traillii, 267, 268
- virescens, 266-268
- Empidonomus varius, 276-278
- Erator inquisitor, 412 Eremophila alpestris, 622
- Ereunetes pusilla, 208 mauri, 208
- Erolia, 208
- acuminata, 52
 - alpina pacifica, 319
 - alpina sakhalina, 50
- bairdii, 208, 209
- ferruginea, 52, 55, 208
- fuscicollis, 209
- maritima, 208 melanotos, 52, 209
- minutilla, 208
- ptilocnemis couesi, 319
- ptilocnemis quarta, 48
- ruficollis, 50
- subminuta, 48
- temminckii, 50
- Errington, P. L., review by, 445

- Erskine, Anthony J., nest-site tenacity and homing in the Bufflehead, 389-396
- Eubucco bourcierii, 409
- Eulampis jugularis, 61
- Eupelia, 372, 373, 377
- Euphagus carolinus, 338
- cvanocephalus, 433, 489, 625
- Eupherusa eximia, 418
- Euphonia Blue-hooded, 421
 - Fulvous-vented, 638
 - Spot-crowned, 421
- Thick-billed, 421
- Eurynorhynchus pygmeus, 53
- Evolution, 663
- Fairy, Purple-crowned, 418
- Falco columbarius bendirei, 318
 - columbarius insignis, 52
 - mexicanus, 619
- peregrinus, 318, 619, 646
- peregrinus calidus, 47
- peregrinus pealei, 47, 55
- rusticolus, 317
- rusticolus grebnitzkii, 47
- rusticolus obsoletus, 317, 318
- rusticolus uralensis, 317, 318
- sparverius, 58, 59, 433, 619 tinnunculus tinnunculus, 92
- Falcon, Barred Forest, 398, 401, 405, 422
- Peregrine, 47, 123, 313, 318, 619, 646-648
 - Prairie, 619
- Falconidae, 399, 400, 405
- Farner, Donald S., see Kendeigh, S. C. et al.; reviews by, 103-107, 282, 286-
 - 289, 447-450, 653-658
- Ficedula parva albicilla, 54
- Finch, Cassin's, 625
- Common Rose, 54
- Gray-crowned Rosy, 49, 324
- House, 510, 625
- Purple, 266, 516
- Rosy, 322
- Spice, 497
- Yellow-thighed, 417
- Fisher, Harvey I., weights and meas-
- urements of organs of Bonin Island Petrels, Pterodroma leucoptera hypo-
- leuca, 269-271
- Fisher, Harvey I., and Eleanor E.

Dater, esophageal diverticula in the Red-poll, Acanthis flammea, 528-531

Flatbill, Eye-ringed, 420

Flicker, 389

Red-shafted, 621 Yellow-shafted, 432

Flight energy, 515-527

Flight ranges, 515-527 Flight, speed of, 313

Florida, 423

Flycatcher, Acadian, 266-268

Ash-throated, 621 Belted, 94, 95

Black-tailed, 420 Boat-billed, 412, 638

Dusky, 621

Dusky-capped, 412 Empidonax, 266-268

Golden-bellied, 420

Gray-capped, 420

Gray-spotted, 54, 323

Great Kiskadee, 636 Least, 145-149, 267, 268

Olive-sided, 614, 621

Olive-striped, 420 Piratic, 636, 638

Red-breasted, 54

Rusty-margined, 420

Scissor-tailed, 491 Short-crested, 420

Slaty-capped, 420

Social, 412, 636

Sooty, 54 Streaked 308 4

Streaked, 398, 412, 636, 637

Tody, 420

Traill's, 267, 268

Tufted, 413

Yellow-bellied, 266, 413

Yellowish, 413

Foliage-gleaner, Lineated, 398, 411 Scaly-throated, 411

Food, 63-71, 90-92, 97, 195, 274, 314-318, 323, 532-550, 636-638, 646-648

Formicariidae 399, 400, 411, 419

Formicarius analis, 411

Fowl, Common, 405

Fox, Glen A., a contribution to the life history of the Clay-colored Sparrow, 220-224 Fratercula corniculata, 48, 321

Fregata, 262

ariel, 265

magnificens, 59, 262, 263, 573

French West Indies, 57-62

Freye, Hans-Albrecht, Das Tierreich, VII/5, Vogel, (rev.), 288

Frigate-bird, 262, 263

Least, 265

Magnificent, 59, 573

Fringilla montifringilla, 50, 324

 Fringillidae, 399, 400, 417, 421, 636, 638
 Frings, Hubert, Mabel Frings, Carl Frings and H. Franklin Little, Sounds of Midway, (rev.), 453

Frings, Mabel, see Frings, Hubert, et al.

Frings, Carl, see Frings, Hubert, et al. Fruitcrow, Purple-throated, 412, 637

Fulica americana, 620, 640, 641

americanan americana, 272

Fulmar, 46, 309 Fulmarus glacialis, 309

glacialis rodgersii, 46

Furnariidae, 399, 400, 402, 411, 419

Gabrielson, Ira N., see Cottam, Clarence. et al.

Gallinago gallinago gallinago, 47

solitaria japonica, 52 Gallinule, Hawaiian, 250

Gallinule, Hawaiian, 250 Gallus gallus, 397, 405

Garrulus, 362

glandarius, 359 Gavia adamsii, 51

arctica, 51

arctica pacifica, 51

arctica viridigularis, 51

immer, 50, 309

stellata, 189, 310 stellata, stellata, 46

stellata stellata, 46 Genetics, 663

Geopelia, 375, 376 cuneata, 376

humeralis, 376

striata, 376 Geopeliinae, 376

George, J. C., nest shifting behavior of the Ashy Wren-Warbler, 435 George, J. C., and P. Thomas Iype, lipase activity in the heart muscle of a migratory and a nonmigratory bird,

Geothlypis trichas, 379, 432, 624

Geotrygon chiriquensis, 407

montana, 407 mystacea, 60

Glaucidium gnoma, 571

minutissimum, 571

Glaucis hirsuta, 408

Glyphorynchus spirurus, 410 Gnatcatcher, Blue-gray, 614, 624

Tropical, 420

Gnatwren, Long-billed, 399, 414 Godwit, Bar-tailed, 50, 320, 638

Black-tailed, 50 Hudsonian, 264

Goldfinch, 530

American, 643 Goose, Andean, 370

Barnacle, 370 Blue, 72-89

Blue-winged, 370

Canada, 47, 100, 308, 311, 434, 614

Cereopsis, 370 Egyptian, 370

Emperor, 49, 311 Hawaiian, 247

Lesser Snow, 72-89

Nene, 247, 251

Red-breasted, 260 Snow, 51, 178, 434

Swan, 51

Tundra Bean, 49

White-cheeked, 99 White-fronted, 49

Goshawk, 52

Grackle, Boat-tailed, 97 Colombian Rice, 416

Common, 125-137, 270, 488, 494

Great-tailed, 487, 488, 494 Lesser Antillean, 61

Grassquit, Black-faced, 61 Blue-black, 637

Yellow-faced, 399, 417 Grebe, Eared, 615, 620, 625

Great Crested, 90, 91

Horned, 51, 90-92 Least, 404

Pied-billed, 90-92, 610, 615

Red-necked, 51, 90, 91

Western, 615

Greenewalt. Crawford H., Hummingbirds, (rev.), 653; Dimensional relationships for flying animals, (rev.),

Greenfield, E. W., review by, 656

Greenlet, Gray-headed, 414

Golden-fronted, 420

Scrub, 398, 414

Greenshank, 52 Nordmann's, 52

Grosbeak, Black-headed, 625

Blue, 97

Blue-black, 421

Evening, 489

Pine, 54

Rose-breasted, 129, 399, 400, 417

Grouse, Blue, 248

Columbia Sharp-tailed, 250

Ruffed, 248, 249

Sage, 249, 250

Rose-breasted, 129, 399, 401, 417

Spruce, 248

Grus canadensis, 52, 318

canadensis canadensis, 641 Guatemala, 94

Guernsey, Raymond Gano, obituary of,

Guillemot, Black, 53

Pigeon, 48, 321 Guiraca caerulea, 97

Gull, Black-headed, 53

California, 271, 434 Franklin's, 406, 620

Glaucous, 50

Glaucous-winged, 48, 308, 310, 320,

Great Black-backed, 426

Herring, 50, 426, 671

Kamchatka, 53

Lesser Black-backed, 671

Mew, 53

Ring-billed, 428, 620

Ross', 53

Sabine's, 53

Slaty-backed, 50

Slender-billed, 55

Gunn, William W. H., see Borror,

Donald J., and -

Gymnopelia, 376 Gymnopithys bicolor, 411 Gymnorhinus cyanocephala, 623 Gyrfalcon, 47, 317

Habia fuscicauda, 417 rubica, 421 Haematopus bachmani, 319 ostralegus, 55 ostralegus osculans, 52

Hailman, Jack P., an enigmatic northward migratory flight off North Carolina in September, 431-433

Haliaeetus albicilla, 52, 317 leucocephalus, 265, 316 leucocephalus alascanus, 47 pelagicus, 52 Harpagus bidentatus, 418 Harrier, Cinereous, 256

Hen, 256 Hartman, Frank A., and Katharine A. Brownell, adrenal and thyroid weights in birds, 397-422

Haverschmidt, F., nests of Empidonomus varius, Pitangus lictor, and Myiozetetes cayanensis, 277

Hawk, Broad-winged, 398, 399, 405

Cooper's, 619 Large-billed, 418 Marsh, 256, 317, 434, 619 Pigeon, 318 Red-tailed, 433, 434, 619 Rough-legged, 52 Sharp-shinned, 619 Sparrow, 52, 433, 434, 619 Swainson's, 434

Zone-tailed, 646 Heart muscle, 633 Heliornis fulica, 406 Heliornithidae, 399, 400, 406 Heliothrix barroti, 418 Helmitheros vermivorus, 260

Henicorhina leucophrys, 413 leucosticta, 420 Hermit, Green, 418

Little, 418
Rufous-breasted, 408

Heron, Black-crowned Night, 427, 610, 615, 638

Boat-billed, 405 Great Blue, 615 Green, 59, 214 Hesperiphona vespertina, 488 Heteropygia, 190, 202-204, 209 acuminata, 209 fuscicollis, 190-196, 209 melanotos, 191, 209 Heteroscelus brevipes, 48

incanum, 52, 319
Hickey, Margaret, Bird-Banding, index
to volumes XII-XXI. 1941-1950,
(rev.), 288

Himantopus mexicanus, 620 Hippolais icterina, 129 Hirundinidae, 399, 400, 402, 413, 420, 636, 637

Hirundo rustica, 53, 622 rustica gutturalis, 53 rustica tytleri, 53

Histrionicus histrionicus, 314 histrionicus pacificus, 47 Hochbaum, A., Albert, see Cottam,

Clarence, et al. Holoquiscalus, 493

Honeycreeper, Green, 399, 414, 638 Red-legged, 398, 400, 415, 636, 638 Shining, 415

Howell, Thomas R., review by, 279-282 Howell, Thomas R., and George A. Bartholomew, temperature regulation in nesting Bonin Island Petrels, Wedge-tailed Shearwaters, and Christmas Island Shearwaters, 343-354

 Hoyt, Sally F., late feeding of young Lapland Longspur in New York, 274
 Hubbs, Carl L., editor, Zoogeography, (rev.), 443-445

Hudson, G. E., review by, 289 Huev. Laurence M., two unusual

Huey, Laurence M., two unusual 1 records for California, 260; two noreworthy records for California, 426

Huey, William S., comparison of female Mallard with female New Mexican Duck, 428-431

Huey, William S., and James R. Travis, Burford Lake, New Mexico, revisited, 607-626

Hummingbird, Antillean Crested, 61

- Blue-chested, 418 Broad-tailed, 621 Emerald-throated, 60, 61 Garnet-throated, 61 Ruby-throated, 517, 525 Rufous-tailed, 408 Scaly-breasted, 408 Scintillant, 398, 399, 408 Snowy-breasted, 408 Stripe-tailed, 418 Violet-bellied, 408 Hybrid index, 16 Hybridism, 627-632 Hydrobatidae, 351 Hydroprogne caspia, 264 Hylocichla fuscescens, 518 guttata, 623 mustelina, 129, 432, 595-606 ustulata, 414 Hylophilus aurantiifrons, 420 decurtatus, 414 viridiflavus, 414 Hypsipetes affinis, 366
- Ibis, Glossy, 245, 248
 Wood, 248
 Icteria virens, 489
 Icteridae, 399, 400, 415, 421, 473, 638
 Icterus cucullatus, 489
 mesomelas, 421
 spurius, 421
 Iiwi, 368
 Incubation period, 188, 204, 222, 266, 435, 535, 586
 Immelmann, Klaus, Im unbekannten
 Australien, (rev.), 450
- Iridoprocne albilinea, 420 bicolor, 338, 622 Irving, Laurence, the migration of Lapland Longspurs to Alaska, 327-342
- Ixobrychus exilis, 404
 Iype. P. Thomas, see George, J. C.,
 and —
- Jacana, 398 American, 398, 406 Jacana spinosa, 406 Jacanidae, 399, 400, 406 Jackdaw, 496, 497 Jaeger, Long-tailed, 48, 181

- Parasitic, 48, 74, 181, 189, 320 Pomarine, 48 Jamaica, 264 Jay, Black-chested, 420 Blue, 129, 261, 489, 495 Gray, 265, 355-365, 622 Piñon, 623 Scrub, 614, 622 Siberian, 361, 364 Steller's, 622, 634-636 Johansen, Hans, revised list of
- Johansen, Hans, revised list of the birds of the Commander Islands, 44-56 Johnsgard, Paul A., evolutionary relationships among North American Mallards, 3-43; comments concerning the Mallard-Black Duck problem, 672-674
- Johnston, Richard F., the genera of American Ground Doves, 372-378 Johnson, R. Roy, aerial pursuit of hawks by turkeys, 645 Junco, Gray-headed, 614, 626
- Slate-colored, 324 Junco, 627-632 caniceps, 626 hyemalis, 627 hyemalis hyemalis, 324 hyemalis x Zonotrichia, 631
- Keith, Lloyd, R., three further records of parasitic egg laying by ducks, 93 Kellogg, Peter Paul, reviews by, 107, 453
- Kendeigh, S. C., et al. report of the research committee for 1960, 242
 Kenyon, Karl W., birds of Amchitka Island, Alaska, 305-326
 Kestrel, 92
- American, 58, 59
 Kilham, Lawrence, aggressiveness of migrant Myrtle Warblers toward woodpeckers and other birds, 261
- woodpeckers and other birds, 261 Killdeer, 185, 188, 207, 208, 213, 489, 620 Kingbird, Cassin's, 621
- Eastern, 146, 220, 489 Tropical, 636, 637 Kingfisher, Amazon, 409
- Green, 398, 409 Pygmy, 398, 409

Ringed, 419

Kiskadee, Great, 636

Kluyver, H. N., food consumption in relation to habitat in breeding Chickadees, 532-550

Kite, Double-toothed, 418

Gray-headed, 418

White-tailed, 442 Kittiwake, 48

Black-legged, 309

Red-legged, 48

Klopper, F. D., review by, 451

Knot, 208, 209

Great, 52

Kuroda, Nagahisa, a note on the pectoral muscles of birds, 261-263

Labisky, Ronald F., and Stuart H. Mann, observation of avian pox in a Yellow-shafted Flicker, 642

Lagopus mutus gabrielsoni, 318

mutus ridgwayi, 47 Lampornis castaneoventris, 408

Land, Hugh C., and Larry L. Wolf, additions to the Guatemalan bird list, 94

Lanius ludovicianus, 91, 129, 489

Lanyon, W. E., and W. N. Tavolga, editors, Animal sounds and communications, (rev.), 451

Laridae, 399, 400, 406

Lark, Horned, 614, 622

Prairie Horned, 188

La Rue, Charles J., Jr., see Selander, Robert L., and —

Larus argentatus, 426, 671

argentatus vegae, 50

californicus, 272, 434 canus, 338

canus brachyrhynchus, 53

delawarensis, 53, 620

genei, 55

glaucescens, 48, 308, 320, 428

hyperboreus subsp., 50 kamtschatschensis, 53

marinus, 426

pipixcan, 406, 620

ridibundus sibiricus, 53, 55

schistisagus, 50, 55

Laterallus albigularis, 406

Lee, Forrest B., see Dickerman, Robert W., and —

Leedy, Daniel L., some federal contributions to bird conservation during the period 1885 to 1960, 167-175

Legatus leucophaius, 277, 278, 636, 638 Leopold, A. Starker, Wildlife of Mexico, (rev.), 446

Leopold, Nathan F., Jr., Hudsonian Godwit (Limosa haemastica) in Puerto Rico, 264

Lepidocolaptes affinis, 410

Leptodon cayanensis, 418

Leptolophus hollandicus, 488

Leptopogon superciliaris, 420

Leptotila cassinii, 406 rufinucha, 407

verreauxi, 418

Leucophoyx thula, 404, 615

Leucosarcia, 375

Leucosticte tephrocotis, 318 tephrocotis griseonucha, 324

tephrocotis maxima, 49

Levy, Seymour H., the Caracara nesting in Arizona, 99

Lewis, C. Bernard, Caspian Terns in Jamaica, 264

Life History, 220-224, 532-550, 567-572, 573-594

Limnodromus scolopaceus, 620

Limosa, 213

haemastica, 264

lappinica baueri, 50, 320, 638

limosa melanuroides, 50

Lipaugus cineraceus, 150-161

Little, H. Franklin, see Frings, Hubert, et al.

Lobipes lobatus, 48, 320

Locustella ochotensis, 54

ochotensis ochotensis, 55

Lonchura, 497

cucullata, 497 punctulata, 497

punctulata, 4

Longevity, 94

Longspur, Lapland, 49, 274, 318, 327-342

Loon, Arctic, 51

Loon, Arche, 51

Common, 50, 309

Red-throated, 46, 310

Yellow-billed, 51

- Lophodytes cucullatus, 425 Lophortyx californicus, 505 californicus brunnescens, 505-514 gambelii, 505 Lophotriccus pileatus, 413
- Lowery, George H., Jr., review by, 446
 Lowther, James K., Virginia Rail
 (Rallus limicola limicola Vieillot)
 breeding at Vermilion, Alberta, 271
 Loxia, 530
- curvirostra, 625 curvirostra japonica, 54 Loxigilla noctis, 62 Lunda cirrhata, 49, 308, 321
- Luscinia calliope, 54 svecica, 337
- MacDonald, S. D., see Parmelee, David F., and —
- MacMillen, Richard E., see Bartholomew, George A., and —
- Magpie, Black-billed, 622 Malacoptila panamensis, 409
- Manacus vitellinus, 411
- Management and conservation, 295, 462, 665
- Manakin, Blue-backed, 160 Gray-headed, 95 Golden-collared, 411
- Red-capped, 398, 411 Mango, Black-throated, 418
- Mann, Stuart H., see Labisky, Ronald F., and —
- Mannakin, Bronze, 497
- Mareca americana, 51, 418, 618
- penelope, 49, 55, 313, 428
- Marler, P., review by, 452 Marquardt, Richard E., albinism in the
- small White-cheeked Geese, 99 Marsden, Halsey M., natural longevity record for a Bobwhite, 94
- Marshall, A. J., editor, Biology and comparative physiology of birds, volume I, (rev.), 279-282; volume II,
- (rev.), 649-652 Martin, Antillean, 58, 61 Brown-chested, 636
- Gray-breasted, 400, 413
- Purple, 622 Martinique, 92

- Mason, C. Russell, see Robertson, William B., Jr., and —
- Mason, Robert F., Jr., recent Whitetailed Kite record in Texas, 442
- Mayfield, Harold F., vestiges of a proprietary interest in nests by the Brown-headed Cowbird parasitizing the Kirtland's Warbler, 162-166
- Mayr, Ernst, review by, 103; obituary by, 471
- McCabe, Robert A., see Cottam, Clarence, et al.
- McKinley, Daniel, review by, 287
- McKinney, Frank, editor recent literature, 109-121, 290-300, 455-468, 659-668
- Meadowlark, 421, 434, 488, 489 Eastern, 672
- Western, 625, 672
- Measurement, birds, 92, 96, 264, 269-271, 278, 385, 423, 425, 438, 552, 562, 629
 - eggs, 276-278, 586 nests, 221, 385, 582
 - ova, 570 testes, 423, 569, 636
- Megarynchus pitangua, 412, 638
- Melanerpes erythrocephalus, 261, 369 formicivorus, 419
- Melanitta deglandi, 51, 640
 - deglandi dixoni, 315
 - deglandi stejnegeri, 49 perspicillata, 51, 55
- Meleagris gallopavo, 619, 645 gallopavo merriami, 138
- Meliphaga, 368
- Meliphagidae, 368
- Melitograis gilolensis, 367
- Melopsittacus undulatus, 480, 488 Melospiza, 627-632
 - georgiana, 438
 - lincolnii, 626
 - melodia, 129, 163, 220, 324, 500, 516, 626, 628
 - melodia maxima, 309
 - melodia morphna, 627, 628
 - melodia x Zonotrichia leucophrys, 628
- Merganser, Chinese, 51 Common, 47, 619
 - Hooded, 425

Little, 52 Red-breasted, 47, 315 Mergus albellus, 52 merganser merganser, 47, 619

merganser merganser, 47, 619 serrator, 315

serrator serrator, 47 squamatus, 51

Merrill, George W., loss of 1,000 Lesser Sandhill Cranes, 641

Metriopelia, 372

Mexico, 551-553, 567-572, 640

Michigan, 266-268, 379-388

Micrastur ruficollis, 405

Micronesia, 638

Micropalama himantopus, 209

Microrhopias quixensis, 95

Migration, 8-15, 93, 117-120, 123, 296, 327-340, 380, 385, 423, 425-427, 431-433, 463-465, 515-527, 638-640, 646,

Miller, Wilmer J., a second egg tooth in a Mourning Dove, 275; egg tooth in Mourning Dove, 674

Mimidae, 636

Mimus gilvus, 636

polyglottos, 261, 623 Minnesota, 63-71, 260

Mionectes olivaceus, 420

Mitchell, E. B., The art and practise of hawking, (rev.), 105

Mitrephanes phaeocercus, 413

Mniotilta varia, 415, 432 Mockingbird, 261, 623

Tropical, 636

Moho, 250, 368

braccatus, 369 nobilis, 368

Molothrus ater, 97, 98, 129, 162-166, 222, 266-268, 473-504, 625, 645

Molt postjuvenal, 634-636

tail, 634

Momotidae, 399, 400, 409

Momotus momota, 409 subrufescens, 398, 409

Morphology, 269-271, 355-365, 375, 397-422, 528-531

Motacilla alba, 50, 323 alba lugens, 55, 323

cinerea, 123

cinerea rubusta, 54 flava, 337

flava simillima, 49

Motmot, Blue-crowned, 409 Tawny-bellied, 409

Mountain-Gem, White-throated, 408

Mourner, Rufous, 412

Munro, David A., see Cottam, Clarence, et al.

Murre, Common, 48, 321

Thick-billed, 48, 320

Murrelet, Ancient, 48, 321

Marbled, 53

Museicapa griseisticta, 54, 309, 323 griseisticta pallens, 323

sibirica, 54

Muscicapidae, 323

Muscivora forficata, 491 Muscle, cardiac, 633

pectoral, 261-263

Myadestes townsendi, 624

Myiarchus cinerascens, 621

ferox, 420

tuberculifer, 412

Myiobius atricaudus, 420

Myioborus miniatus, 415

torquatus, 415

Myiodynastes hemichrysus, 420 maculatus, 412, 636, 637

Myiopagis viridicata, 413

Myiozetetes cayanensis, 276-278, 420

granadensis, 420 similis, 412, 636

Myna, Common, 633

Myrmeciza exsul, 419 longipes, 419

Myzomela, 366, 367

Nannopterum harrisi, 262

Nectarinia, 366-369

notata, 369

Neodrepanis, 369 Nesting success, 77-79, 224, 536

Neuffer, Claude Henry, editor, The Christopher Happoldt journal; his European tour with the Rev. John

Bachman, (rev.), 287 New Mexico, 607-626

New York, 425

Nice, Margaret M., and Nicholas E

- Collias, a nesting of the Least Flycatcher, 145-149
- Nichols, Charles K., editor, Ten-year index to the Auk, volumes 58-67, 1941-1950, (rev.), 657
- Nighthawk, 179
 - Common, 621
 - Lesser, 402, 408
- Noddy, Black, 423, 424
- Brown, 60, 423, 424 White-capped, 424
- Nolan, Val, Jr., a method of netting birds at open nests in tree, 643-645
- Norris, Robert A., a new method of preserving bird specimens, 436-440
- North Carolina, 431-433, 441 Nucifraga columbiana, 359, 623
- Numenius americanus, 259
- arquata, 186
- borealis, 259
- madagascariensis, 52
- minutus, 259
- phaeopus, 259
- phaeopus variegatus, 50
- Nutcracker, Clark's, 614, 623
- Nuthatch, Pigmy, 623
- White-breasted, 547, 623
- Nuttallornis borealis, 621
- Nyctea scandiaca, 49, 321
- Nyctibiidae, 399, 400, 407
- Nyctibius, 94 griseus, 407
- Nycticorax nycticorax, 615 nycticorax hoactli, 427
- nycticorax nycticorax, 638 Nyctidromus albicollis, 408, 571
- Nystalus chacuru, 1
 - maculatus, 1
 - radiatus, 2
 - striolatus, 2
- Obituary or, Raymond Gano Guernsey, 123; Charles E. W. Bryant, 471
- Oceanodroma furcata furcata, 46
- leucorhoa, 351
 - leucorhoa leucorhoa, 46
- Odontophorus guttatus, 405
- Odum, Eugene P., Clyde E. Connell, and Herbert L. Stoddard, flight energy and estimated flight ranges of

- some migratory birds, 515-527
- Oenanthe oenanthe, 54, 337
- Oidemia nigra americana, 50
- Olor buccinator, 370
 - columbianus, 310
 - cygnus, 49, 310
- Olson, James G., first Tufted Duck seen
- in Oregon, 638
- Onocratalus, 276
- Onychognathus morio, 129
- Ooaa, 250
- Oporornis agilis, 94, 379-388
- formosus, 421
- philadelphia, 379, 421
- Oregon, 638
- Oreoscoptes montanus, 623
- Oriole, Hooded, 489
- Orchard, 421
- Yellow-tailed, 421
- Oropendola, Chestnut-headed, 415, 638
 - Crested, 398, 400, 416
- Wagler, 492, 493
- Ortalis garrula, 405
- Orthorhynchus cristatus, 61
- Orthotomus sutorius sutorius, 435
- Oryzoborus funereus, 417
- Osprey, 52, 317
- Osteology, 273
- Otocoris alpestris praticola, 188
- Otophanes mcleodii, 567-572
- Otus asio, 489, 634
 - choliba, 407 trichopsis, 571
- Ouellet, Henri, plumage peculiarity in
- Cedar Waxwing, 271 Ovenbird, 58, 61, 129, 162, 163, 165, 500
- Owl, Barn, 399, 407
- Black and White, 418
- Boreal, 53
- Great Horned, 621, 641
- Saw-whet, 634 Screech, 489, 634
- Short-eared, 49, 186, 322
- Snowy, 49, 321
- Striped, 418
- Tropical Screech, 407
- Oxypelia cyanopsis, 376
- Oxyura jamaicensis, 93, 619
- Oystercatcher, 52
 - Black, 319

Pachyptila turtur, 351
Pachyramphus polychopterus, 419
Palaeontology, 120, 257, 299, 466, 668
Palmer, Ralph S., obituary by, 123;
see Kendeigh, S. C., et al.
Pandion haliaetus, 317

haliaetus haliaetus, 52 Parakeet, Barred, 418 Orange-chinned, 407, 637 Red-winged, 496

Red-winged, 496 Shell, 476, 480, 488, 495, 498 Sulphur-winged, 407

Parasites, 113, 456

Parasitism, 93, 162-166, 223, 266-268 Parkes, A. S., editor, Hypothermia and

the effects of cold, (rev.), 288

Parmelee, David F., and S. D. MacDonald, The birds of west-central

Ellesmere Island and adjacent areas,
(rev.), 288

Parrot, African Grey, 498 Brown-hooded, 399, 407 Red-fronted, 418 White-crowned, 418 Parula, Tropical, 415

Parula pitiayumi, 415 Parulidae, 399, 400, 415, 421 Parus atricapillus, 129, 532-550 atricapillus kamtschatkensis, 53

carolinensis, 261 gambeli, 623

major, 532 Passer, 530

domesticus, 63-71, 128, 167, 482, 488, 530, 641

Passerculus sandwichensis, 510, 516, 518, 626

Passerella, 627, 631 Passerina ciris, 489

cyanea, 421, 519, 524, 643

Pastor, Rosy, 633 Pastor roseus, 633

Paulson, Dennis R., see Robertson, William B., Jr., and —

Pauraque, 408 Pedioecetes, 193

Pelecanus erythrorhynchos, 434, 615 occidentalis, 59

Pelican, Brown, 59, 401, 422 White, 275, 434, 615 Pellet-casting, 90-92 Peppershrike, Rufous-browed, 414 Perisoreus, 355-365

canadensis, 265, 355-365, 622

infaustus, 355, 364 internigrans, 355

Perissocephalus tricolor, 150-161

Peterson, Roger Tory, A field guide to western birds, (rev.), 450

Petrel, Bonin Island, 269-271, 343-354 Fork-tailed, 46

Leach's 46, 351

Petrochelidon pyrrhonota, 622

Peucedramus taeniatus, 556

Pewee, Dark, 420 Western Wood, 621

Phaeochroa cuvierii, 408 Phaeoprogne tapera, 636

Phaëthon aethereus, 59

lepturus, 59

Phaethornis guy, 418 Ionguemareus, 418

Phalacrocoracidae, 399, 400, 404

Phalacrocorax olivaceus, 404

pelagicus, 310 pelagicus pelagicus, 46 perspicillatus, 44, 47

urile, 46 Phalaenoptilus nuttallii, 571

Phalarope, Northern, 48, 320 Red, 53

Wilson's, 620 Phalaropus fulicarius, 53

Pharomachrus mocinno, 419

Phasianidae, 399, 400, 405

Phasianus colchicus, 641 Pheasant, Ring-necked, 641

Phelps, William H., Night migration at 4,200 meters in Venezuela, 93

Pheucticus ludovicianus, 129, 417

melanocephalus, 625 Philacte canagica, 49, 311

Philacte canagica, 49, 3: Philacte canagica, 49, 3:

Phillips, Allan R., see Schaldach, W. J., and —: comments concerning the

Mallard-Black Duck problem, 670-672 Phillips, Allan R., and J. Dan Webster,

Grace's Warbler in Mexico, 551-553 Philodice bryantae, 418 Philohela minor, 272

Philomachus pugnax, 52, 209

Phloeoceastes guatemalensis, 419

melanoleucos, 637

Phoebe, Say's, 621

Phylloscopus, 368

borealis, 337

borealis examinandus, 309, 322

borealis xanthodryas, 54

Physiology, 120, 269-271, 273, 355-365,

397-422, 510, 633, 667

Piaya cayana, 407

Pica pica, 359, 622

Picidae, 399, 400, 410, 419, 637

Piculet, Olivaceous, 94, 419

Picumnus olivaceus, 419

olivaceus dimotus, 94

rubiginosus, 410

Pigeon, Domestic, 530

Scaled, 398, 400, 406

Scaley-naped, 60

Short-billed, 637

White-crowned, 573

White-naped, 406

Pinchon, Pere R., and Charles Vaurie, the Kestrel (Falco tinnunculus) in

the New World, 92

Pinicola, 363

enucleator kamtschatkensis, 54

Pinopsitta haematotis, 407

Pionus senilis, 418

Pipilo erythrophthalmus, 489, 530, 626

Pipit, Indian Tree, 54

Pechora, 49

Red-throated, 54

Water, 54, 323

Pipra mentalis, 411

Pipridae, 399, 400, 411

Piprites griseiceps, 95

Piranga bidentata, 421

flava hepatica, 426

leucoptera, 417

ludoviciana, 625

olivacea, 499, 517, 518

rubra, 416, 518, 522

Pitangus lictor, 276-278

sulphuratus, 276-278, 636

Pitelka, Frank A., a curtailed postjuvenal molt in the Steller Jay, 634-

636

Platyrinchus coronatus, 420

mystaceus, 420

Plectrophenax nivalis townsendi, 49, 55,

325

Plotus anhinga, 91

levaillanti, 91

Plover, American Golden, 176-215, 319

Black-bellied, 50, 179-215

European Golden, 181, 185, 210

Golden, 50, 259

Kentish, 207, 208

Little Ringed, 190, 207, 208, 210

Mongolian, 47

Pacific Golden, 181

Piping, 207, 208

Ringed, 182-184, 189, 205, 207, 208,

210, 211, 213

Semipalmated, 207

Snowy, 52

Plumage peculiarity, 271

Pluvialis, 180, 207, 208, 210

apricaria, 181

dominica, 176-219, 259, 319

dominica fulva, 50, 55, 181

squatarola, 185-219

Podiceps auritus, 90-92

auritus auritus, 51

caspicus, 615

cristatus, 91

dominicus, 404 grisegena, 90

grisegena holboellii, 51, 55

Podicipedidae, 399, 400, 404

Podilymbus podiceps, 90-92, 615

Poephila guttata, 530

Polioptila caerulea, 624

plumbea, 420

Polysticta stelleri, 49

Pooecetes gramineus, 626

Poor-will, Eared, 567-572

Population, 6, 8, 13, 15, 75, 114, 204, 220, 293, 312, 458-460, 546, 662

Portenko, L. A., see Stresemann, Erwin, and —; ptitsy SSSR. tom IV, (birds

of the USSR, pt. IV), (rev.), 286 Porter, J. R., chairman, Style manual

for biological journals, (rev.), 658 Porzana carolina, 525, 640

Potoo, Common, 399, 407

Great, 94

Pough, Richard H., see Cottam, Clarence, et al.

Prairie Chicken, Attwater, 249 Greater, 249

Lesser, 249

Preble, Charles S., unusual behavior of House Wren, 442

Predation, 74, 271, 307-309, 313, 315, 317, 536, 641, 645

Preening, interspecific, 473-504

Preserving specimens; a new method,

Prinia socialis, 435

Prion, Fairy, 351 Procnias alba, 150-161

averano, 150

Progne chalybea, 413 dominicensis, 58, 61

subis, 622

Protonotaria citrea, 95

Provost, Ernest E., review by, 652

Psarocolius decumanus, 416

Pselliophorus tibialis, 417

Psephotus haematonotus, 496 Psittacidae, 399, 400, 407, 418, 637

Psittacus erithacus, 498

l's mocolax oryzivorus, 492

Ptarmigan, Rock, 47, 318

Pterodroma leucoptera hypoleuca, 269-271

hypoleuca hypoleuca, 345, 353

Pteroglossus frantzii, 410 torquatus, 409, 637

Puerto Rico, 264, 425

Puffbird, White-eared, 1

White-whiskered, 409 Puffin, Horned, 48, 321

Puffin, Horned, 48, 321 Tufted, 49, 308, 321

Puffinus Iherminieri, 59

nativitatis, 351, 352 pacificus, 347-353

puffinus opisthomelas, 352 tenuirostris, 51, 351, 352

Pulich, Warren M., a record of the Yellow Rail from Dallas, Texas, 639

Pygmy-Tyrant, Scale-crested, 398, 402, 413

Pyrrhula pyrrhula cassini, 54, 55

Pyrrhura hoffmanni, 407

Quail, Bobwhite, 94 California, 505-514 Gambel, 505

Japanese, 405 Spotted Wood, 405

Quail-Dove, Moustached, 60

Ruddy, 407

Rufous-breasted, 400, 401, 407

Querula purpurata, 412, 637

Quetzal, 419

Quiscalus lugubris, 61

quiscula, 488

versicolor, 125-137

Rail, Gray-necked Wood, 400, 405

Sora, 525, 640 Virginia, 271, 614, 619, 640

Yellow, 639

Rallidae, 399, 400, 401, 405, 640

Rallus limicola, 619, 640

limicola limicola, 271

Ramphastidae, 399, 400, 402, 409, 419, 637

Ramphastos sulphuratus, 637

swainsonii, 419, 637 Ramphocaenus rufiventris, 414

Ramphocelus dimidiatus, 416

icteronotus, 421 passerinii, 421

Raven, Common, 49, 322, 434, 622

Recurvirostra americana, 620

avosetta, 185 Redpoll, 528-531

Cemmon, 49, 324

Hoary, 50

Redshank, 213

Spotted, 52

Redstart, 129, 432 American, 421, 500

Collared, 415

Slate-throated, 415

Reichert, Elsa, see Reichert, Robert J., and —

Reichert, Robert J., and Elsa, Binoculars, their scopes and their uses in

photography, (rev.), 289 Rhinoptynx clamator, 418

Rhodinocichla rosea, 417

Rhodostethia rosea, 53

Khynchocyclus brevirostris, 420

Rhytipterna holerythra, 412

Richardson, Frank, review by, 450

Richmondena cardinalis, 261, 489, 530

Riparia riparia ijimae, 53

Ripley, S. Dillon, aggressive neglect as a factor in interspecific competition in

birds, 366-371

Ripley, S. Dillon, and Lynett L. Scribner, Ornithological books in the Yale University library including the Library of William Roberston Coe,

(rev.), 657

Rissa brevirostris, 48

tridactyla, 309

tridactyla pollicaris, 48

Robertson, William B., Jr., northern migrant wintering in tropics, 123;

review by, 447

Robertson, William B., Jr., Dennis R. Paulson, and C. Russell Mason, a tern new to the United States, 423-

Robin, 261, 434, 487, 489, 499, 623

American, 129 Clay-colored, 414, 636, 638

Mountain, 420

White-throated, 399, 414

Roest, Aryan I., interspecific relationships among birds, 433-435

Rook, 364

ROVERETORNIS, 257

intermedius, 257

Rubythroat, Siberian, 54

Ruff, 52, 209

Rupicola rupicola, 158

Sabrewing, Violet, 399, 408

Salivary glands, 355-365

Salpinctes obsoletus, 623

Salt, W. Ray, recent additions to the

avifauna of Alberta, 427

Saltator, Black-headed, 421

Buff-throated, 417

Streaked, 417

Saltator albicollis, 417

atriceps, 421

maximus, 417

Sanderling, 52, 205, 208, 209, 320

Sandpiper, Baird's, 191, 195-206, 208,

209, 212-214

Common, 50

Curlew, 52, 195, 196, 209

Least, 191, 208, 209

Pectoral, 52, 191, 193, 195

Purple, 191, 196, 198, 208

Rock, 48, 305, 319

Rufous-necked, 50

Semipalmated, 191, 208, 209

Sharp-tailed, 52

Spoon-billed, 53

Spotted, 191, 205

Stilt, 209

Terek, 52

Western, 208

White-rumped, 190-196, 201-206, 208, 212, 214

Wood, 48, 319

Sanft, Kurt, Bucerotidae, (aves/upupae), (rev.), 289

Sapsucker, Williamson's, 614, 621 Yellow-bellied, 261, 419

Saunders, Aretas A., the songs and calls of the Wood Thrush, 595-606

Sayornis saya, 621

Scaphidura orizyvora, 416

Scardafella, 372-377

inca, 373-376, 488

squammata, 373-376

Schaldach, W. J., Jr., and Allan R. Phillips, the Eared Poor-will, 567-572

Schaller, George B., and John T. Emlen, Jr., the development of visual discrimination patterns in the crouching reactions of nesting grackles, 125-137

Schmidt, Herta, editor, Der Flug der Tiere, (rev.), 286

Schorger, A. W., an ancient pueblo turkey, 138-144

Schultz, Vincent, An annotated bibliography on the uses of statistics in ecology, (rev.), 657

Schüz, Ernst, Die Vogelwelt des Südkaspischen Tieflandes, (rev.), 655

Scoter, Common, 50

Surf, 51

White-winged, 49, 51, 315, 640

Scribner, Lynett L., see Ripley, S. Dillon, and -

Seedeater, Ruddy-breasted, 421 Variable, 400, 417, 636, 638

Yellow-bellied, 637

Seed-Finch, Thick-billed, 398, 400, 417 Seiurus aurocapillus, 58, 61, 129, 162, 500

motacilla, 421

noveboracensis, 624

Selander, Robert K., and Charles J. La Rue, Jr., interspecific preening invitation display of parasitic cowbirds, 473-504

Selasphorus platycercus, 621 scintilla, 408

Sericotes holosericeus, 61

Serinus, 530 canaria, 488

Serventy, D. L., review by, 654

Setophaga ruticilla, 129, 421, 432, 500

Sex ratio, 395

Shearwater, Audubon's, 59 hristmas Island, 343-354

Slender-billed, 51

Wedge-tailed, 343-354 Shelduck, Paradise, 370

Sherman, Constance D., an old New York record for the White Pelican, 275

Shrike, Loggerhead, 91, 129, 489, 495

Sialia currucoides, 624

sialis, 261 Sibley, Charles G., treasurer's report for the period August 1, 1959-July 31, 1960, 239-241

Sick, Helmut, Peregrine Falcon hunting bats while wintering in Brazil, 646-648

Siskin, Pine, 625

Yellow-bellied, 421 Sitta carolinensis, 547, 623

pygmaea, 623

Sittasomus griseicapillus, 410

Skylark, 50

Slud, Paul, The birds of Finca "La Selva" Costa Rica; a tropical wet forest locality, (rev.), 283

Smith, Barton L., see Spence, Matthew J., and —

Snipe, Common, 47 Solitary, 52

Snow, Barbara K., notes on the behavior of three cotingidae, 150-161 Snyallaxis albescens, 411

brachyura, 411

Snyder, Dorothy E., first record of the Least Frigate-bird (Fregata ariel) in North America, 265

Solitaire, Townsend's, 624

Somateria mollissima, 308, 314

mollissima v-nigra, 47, 260

spectabilis, 49 South Carolina, 640

Southern, William E., dichromatism in

juvenal Yellow Warblers, 440

Spadebill, Golden-crowned, 420

White-throated, 420 Sparrow, Brewers, 626

Chipping, 626, 645

Clay-colored, 220-224

English, 167, 168, 530

Field, 69, 266, 643, 645

Green-backed, 637

House, 63-71, 128, 482, 487-491, 495, 641

Lafresnaye's, 417

Lark, 626

Lincoln's, 626

Rufous-collared, 417

Sage, 626

Savannah, 510, 516, 518, 522, 526, 614, 626

Song, 69, 129, 148, 163, 220, 309, 324,

500, 516, 614, 626, 627, 631

Swamp, 439

Tree, 129, 516

Vesper, 626

White-crowned, 129, 477-479, 489, 490, 517, 626, 627, 631

White-throated, 517, 518, 522, 526

Spatula clypeata, 47, 55, 314, 618

Speed of flight, 313

Spence, Matthew J., and Barton L. Smith, a subspecies of Torreornis inexpectata from Cuba, 95-97

Sphyrapicus varius, 261, 419

thyroideus, 621

Spinetail, Pale-breasted, 399, 411 Red-faced, 398, 402, 411

Slaty, 411

Spinus pinus, 625

tristis, 530, 643

xanthogaster, 421

- Spizella, 631
 - arborea, 129, 338, 516
 - breweri, 626
 - pallida, 220-224
- passerina, 626, 645
- pusilla, 266, 643
- Spoonbill, Roseate, 248
- Sporophila aurita, 417, 636, 638
- minuta, 421
- nigricollis, 637
- Squatarola squatarola, 50
- Starling, 129, 270, 489, 495, 624
- Red-winged, 129
- Steganopodes, 262
- Steganopus tricolor, 620
- Stelgidopteryx ruficollis, 413, 622, 636
- Stercorarius longicaudus, 181
- longicaudus pallescens, 48
- parasiticus, 48, 74, 181, 320
- pomarinus, 48, 55
- Sterna aleutica, 53
- dougallii, 60
- fuscata, 60, 423
- hirundo, 179
- hirundo longipes, 53
- paradisaea, 48, 320
- Stilt, Black-necked, 620
- Stingelin, Werner, Vergleichend morphologische Untersuchungen am Vorderhirn der Vögel auf cytologischer
 - und cytoarchitektonischer Grundlage, (rev.), 284-286
- Stint, Long-toed, 48
- Temminck's, 50, 208
- Stoddard, Herbert L., see Odum, Eugene P., et al.
- Storer, Robert W., observations of pellet-casting by Horned and Pied-billed Grebes, 90-92
- Stork, Wood, 248
- Streptopelia, 375, 376
- decaocto, 375
- risoria, 375
- Stresemann, Erwin, and L. A. Portenko, Atlas der Verbreitung palaearktischer
- Vögel, (rev.), 103
- Strigidae, 399, 400, 407, 418 Sturnella, 474, 488, 489
- magna, 421, 672
- neglecta, 434, 625, 672

- Sturnus vulgaris, 129, 270, 489, 624
- Sula, 262
 - leucogaster, 59
 - sula, 59
 - sula sula, 573-594
 - sula rubripes, 583, 585
 - sula websteri, 583
- Sungrebe, 406
- Swallow, Bank, 53
 - Barn, 53, 622
 - Cliff, 622
 - Mangrove, 420
 - Rough-winged, 398, 399, 402, 413, 622, 636
 - Tree, 622
- Violet-green, 622
- Swan, Mute, 434
- Trumpeter, 171, 370 Whistling, 51, 310
- Whooper, 49, 310
- Swift, Chimney, 489, 495, 525 White-throated, 621
- Sykes, Paul W., old record of Baikal
- Teal in North Carolina, 441
- Sylviidae, 399, 400, 414, 420
- Syndactyla subalaris, 411
- Tachycineta thalassina, 622 Tachyphonus luctuosus, 421
- rufus, 417
- Tadornini, 369
- Tamura, Sakae, Birds of River Tama,

Synthliboramphus antiquum, 48, 321

- (rev.), 655
- Tanager, Bay-headed, 416
- Blue-gray, 421, 636, 638
- Crimson-backed, 416
- Flame-colored, 421
- Golden-masked, 416, 638
- Hepatic, 426
- Palm, 421, 636, 638
- Plain-colored, 638
- Scarlet, 499, 517, 518, 526
- Scarlet-rumped, 421
- Silver-throated, 416
- Summer, 416, 518, 522, 526
- Western, 625
- White-lined, 398, 400, 417
- White-shouldered, 421
- Yellow-rumped, 421

- Tanagra elegantissima, 421
 - fulvicrissa, 638
 - imitans, 421
- laniirostris, 421 Tangara guttata, 421
- gyrola, 416
- icterocephala, 416
- inornata, 638
- larvata, 416, 638
- Tangavius, 492 aeneus, 473, 488, 502
- Tapera naevia, 418
- Taraba major, 419
- Tarsiger cyanurus, 54
- Tattler, Siberian, 48
- Wandering, 52, 319
- Tavolga, W. N., see Lanyon, W. E.,
- Taxonomy, 36-40, 72, 88, 120, 205-209, 257, 299, 372-378, 466, 551, 562-565, 631, 668, 670-674
- Teal, Baikal, 51, 441
- Blue-winged, 418, 617, 618
- Brown, 36
- Chestnut-breasted, 36
- Cinnamon, 617
- Common, 47, 308, 313
- Falcated, 51
- Green-winged, 313, 617
- Telmatodytes palustris, 623
- Temperature regulation, 343-354
- Terathopius ecaudatus, 498 Tern, Aleutian, 53
- Arctic, 48, 320
- Black, 620
- Caspian, 264
- Common, 53, 179
- Noddy, 424
- Roseate, 60
- Royal, 59, 264
- Sooty, 60, 423
- Texas, 258, 259, 272, 442, 639 Thalasseus maximus, 59, 264
- Thamnophilus doliatus, 411 punctatus, 419
- Thrasher, Brown, 487, 489
- Sage, 623 Thraupidae, 399, 400, 416, 421, 636, 638
- Thraupis palmarum, 421, 636, 638
- virens, 421, 636, 638

- Thripadectes rufobrunneus, 419
- Thrush, Dusky, 53, 322
 - Eve-browed, 53
- Hermit, 614, 623
- Olive-backed, 398, 414
- Wood, 129, 432, 595-606
- Thrush-Tanager, Rose-breasted, 400,
- Thryothorus fasciato-ventris, 637
- modestus, 413
- Tiaris bicolor, 61
- olivacea, 417
- Tinamidae, 257, 399, 400, 404
- Tinamisornis, 257
- intermedius, 257
- parvulus, 257
- Tinamou, Little, 404
- Tit, Great, 532, 536
- Tityra, Black-crowned, 412
 - Masked, 398, 412
- Tityra, 160
 - semifasciata, 412
- Terres, John K., The wonders I see, (rev.), 106
- Todirostrum cinereum, 420 Tordoff, Harrison B., see Kendeigh,
- S. C., et al.
- Torreornis inexpectata, 95
 - inexpectata inexpectata, 95-97
- INEXPECTATA SIGMANI, 95-97
- Totanus flavipes, 213
 - totanus, 213
- Toucan, Chestnut-mandibled, 419, 637
 - Keel-billed, 637
- Toucanet, Emerald, 402, 409
- Towhee, Green-tailed, 625
 - Rufous-sided, 489, 530, 626
- Town, Ralph H., recovery of bird band
- from an owl pellet, 641
- Toxostoma rufum, 487, 489
- Trautman, Milton B., see Kendeigh, S. C., et al.
- Travis, James R., see Huey, William S.,
- Treehunter, Streak-breasted, 419
- Tringa erythropus, 52
- glareola, 48, 319
- guttifer, 52
- nebularia, 52
- Trochilidae, 399, 400, 408, 418

Troglodytes aedon, 623

musculus, 413

ochraceus, 420

troglodytes kiskensis, 309, 322

troglodytes pallescens, 49 troglodytes tanagensis, 322

Troglodytidae, 399, 400, 413, 420

Trogon, Bar-tailed, 419 Black-throated, 409

Slaty-tailed, 409

Violaceous, 409 White-tailed, 419, 637

Trogon collaris, 419

massena, 409

rufus, 409

strigilatus, 419

violaceus, 409

viridis, 637

Trogonidae, 399, 400, 409, 419, 637

Tropic-bird, Red-billed, 59

White-tailed, 59

Tubinares, 262 Turček, F. J., review by, 286

Turdidae, 399, 400, 414, 420, 636

Turdus assimilis, 414

grayi, 414, 636, 638

merula, 129

migratorius, 129, 261, 434, 487, 489,

499, 623

naumanni euriomus, 53

obscurus, 53, 309, 322 plebejus, 420

Turkey, 138-144, 619, 645 Merriam's, 139, 140

Turnstone, 50

Ruddy, 319 Tyrannidae, 147, 399, 400, 402, 412, 420,

636, 637 Tyranniscus vilissimus, 413

Tyrannulet, Beardless, 420

Paltry, 413

Yellow, 398, 402, 413

Tyrannus melancholicus, 636 tyrannus, 146, 220, 489

vociferans, 621 Tyto alba, 407

Tytonidae, 399, 400, 407

Udvardy, M. D. F., see Kendeigh, S. C., et al.; review by, 655

Uria aalge, 321

aalge inornata, 48

Iomvia, 320

Iomvia arra, 48

van Oordt, G. J., Vogeltrek, 4th edition, (rev.), 282

Vaurie, Charles, list of and notes on the birds of Iles des Saintes, French West Indies, 57-62; see Pinchon, Pere

R., and —

Veery, Eastern, 518 Venezuela, 93

Venilornis fumigatus, 419

Vermivora celata, 264, 624

chrysoptera, 421

peregrina, 263, 264, 518

ruficapilla, 385

virginiae, 624

Verner, Jared, nesting activities of the Red-footed Booby in British Honduras, 573-594

Vestiaria coccinea, 368

Vireo, Bell's, 643

Black-whiskered, 61

Brown-capped, 95, 420

Red-eyed, 499, 519, 523

Solitary, 624

Warbling, 624

Yellow-green, 258 Yellow-throated, 420

Vireo altiloguus, 61

bellii, 643

flavifrons, 420

flavoviridis, 259

gilvus, 624

leucophrys, 95, 420

leucophrys strenuus, 95

olivaceus, 499, 519, 523

solitarius, 624

Vireonidae, 399, 400, 414, 420

Voice, 61, 98, 146, 152-160, 179, 180, 183, 185, 187, 189-191, 196, 197, 201, 205, 209, 211, 221, 265, 276, 277, 381, 569, 595-606

Volatinia jacarina, 637

von Hartman, L., see Bergamn, G., et al.

Voous, K. H., Atlas of European birds, (rev.), 103

- Vulture, Black, 405 Turkey, 434, 619
- Wagtail, Gray, 54 White, 50, 323 Yellow, 49, 323
- Walkinshaw, Lawrence H., the effect of parasitism by the Brown-headed Cowbird on Empidonax Flycatchers in Michigan, 266-268
- Walkinshaw, Lawrence H., and William A. Dyer, the Connecticut Warbler in Michigan, 379-388
- Warbler, Arctic, 54, 322 Audubon's, 624 Bay-breasted, 519
 - Blackburnian, 421
 - Black-cheeked, 421 Blackpoll, 499
 - Black-throated Green, 399, 401, 415, 427
 - Black-and-White, 401, 415, 432
- Buff-rumped, 421 Chestnut-sided, 401, 415
- Connecticut, 94, 379-388
- Golden, 61 Golden-crowned, 415
- Golden-winged, 421
- Grace's, 551-566, 624 Hooded, 519, 522, 526
- Icterine, 129
- Kentucky, 421 Kirtland's, 162-166, 381
- Middendorff's Grasshopper, 54
- Mourning, 379, 383, 421
- Myrtle, 261, 489 Nashville, 385
- Olive, 556 Orange-crowned, 264, 624
- Palm, 61, 385
- Pileolated, 399, 415
- Plumbeous, 58, 61 Prairie, 643, 645
- Prothonotary, 95
- Tennessee, 263, 415, 518, 523
- Tropical Parula, 415
- Virginia's, 624
- Wilson's, 625
- Worm-eating, 260

- Yellow, 421, 440, 499, 624
- Yellow-throated, 640
- Water requirement, 505-514
- Waterthrush, 381 Louisiana, 421
 - Northern, 123, 624
- Waxbill, Blue-breasted, 497
- Golden-breasted, 497 Waxwing, Bohemian, 54
- Cedar, 271, 489
 Webster, J. Dan, see Phillips, Allan R., and —; a revision of Grace's Warbler,
- 554-566 Weight, adrenal, 397-422
- birds, 269-271, 278, 311, 313, 315, 317-320, 322, 324, 385, 404-421, 438, 506, 509, 510, 512, 518, 525, 562, 590
- eggs, 586
- fat, 438, 518, 519, 525
- heart, 269, 438
- liver, 269
- nest, 385
- thyroid, 397-422
- West Indies, 92
- Westerskov, Kaj. Birds of Campbell
 - Island, (rev.), 104
- Wheatear, 54 Whimbrel, 50, 259, 260
- Willet, 620
- Williams, Gordon R., A treasury of New Zealand bird song, (rev.), 107
- Wilsonia citrina, 519, 522
- pusilla, 415, 625 Wisconsin, 125-136
- Wolf, Larry L., see Land, Hugh C., and —; specimen of the Yellow-green Vireo from Texas, 258
- Wolfe, L. R., review by, 105; Cattle Egret in Mexico, 640; compiled index vol. 78
- Wolfson, Albert, review by, 443-445
- Wong, Herbert, Ducks, geese, and swans, a Sunset junior book, (rev.), 107
- Woodcock, 272
- Woodford, James, and D. H. Baldwin, first Blue Grosbeak collected in Ontario, 97
- Woodhewer, Barred, 419
 - Buff-throated, 419

- Olivaceous, 410
- Plain-brown, 419 Ruddy, 419
- Spot-crowned, 400, 410
- Spotted, 410
- Wedge-billed, 402, 410
- Woodpecker, Acorn, 419
- Black-cheeked, 410, 637
- Crimson-crested, 637 Downy, 261, 547
- Golden-olive, 398, 399, 410
- Great Spotted, 53
- Hairy, 261, 410, 621
- Ivory-billed, 248
- Ladder-backed, 489
- Lewis', 621
- Lineated, 398, 410
- Pale-billed, 419
- Red-bellied, 261
- Red-crowned, 398, 410
- Red-headed, 261
- Smoky-brown, 419
- Wood Quail, Spotted, 405
- Wood Rail, Gray-necked, 400, 405
- Woodstar, Magenta-throated, 418
- Wood Wren, Gray-breasted, 413 White-breasted, 420
- Wray, David L., and Harry T. Davis, revised by, Birds of North Carolina,
- (rev.), 289 Wren, Black-bellied, 637
- Cañon, 623
- Gray-breasted Wood, 413
- House, 442, 536, 623
- Long-billed Marsh, 623

- Ochraceous, 420
- Plain, 413
- Rock, 623
- Song, 414
- Southern House, 398, 413
- White-breasted Wood, 420
- Winter, 49, 309, 322, 324
- Wren-warbler, Ashy, 435
- Xanthocephalus xanthocephalus, 493,
- Xema sabini subsp., 53
- Xenops, Plain, 419
- Xenops minutus, 419
- Xenotriccus callizonus, 95
- Xenus cinereus, 52
- Xiphorhynchus erythropygius, 410
- guttatus, 419
- Yellowlegs, Lesser, 213
- Yellowthroat, 379, 381, 432, 433, 614, 624
- Zarhynchus wagleri, 415, 492, 638
- Zenaida asiatica, 375
 - aurita, 60
- Zenaidura, 512
- macroura, 275, 488, 510, 620
- Zonotrichia, 627-632
- albicollis, 517, 518, 627
 - capensis, 417
 - leucophrys, 129, 489, 490, 517, 626-
 - 628
- leucophrys pugetensis, 627
- Zusi, Richard L., review by, 101



The Auk

A Quarterly Journal of Ornithology

EDITOR DONALD S. FARNER

MANAGING EDITOR HENRY GROSSHANS



VOLUME 78

PUBLISHED BY

The American Ornithologists' Union LANCASTER, PENNSYLVANIA 1961 DATES OF ISSUE OF "THE AUK"

Vol. 78, No. 1-17 February 1961

Vol. 78, No. 2-10 May 1961

Vol. 78, No. 3-7 August 1961

Vol. 78, No. 4-21 November 1961

CONTENTS OF VOLUME 78

NUMBER 1

THE WHITE-EARED PUFFBIRD. Don R. Eckelberry	1
EVOLUTIONARY RELATIONSHIPS AMONG THE NORTH AMERICAN MALLARDS. Paul A. Johnsgard	3
REVISED LIST OF THE BIRDS OF THE COMMANDER ISLANDS. Hans Johansen	44
LIST OF AND NOTES ON THE BIRDS OF THE ILES DES SAINTES, FRENCH WEST INDIES. Charles Vaurie	57
WINTER FEEDING PATTERNS IN THE HOUSE SPARROW. James R. Beer	63
ECOLOGICAL ASPECTS OF THE BLUE-SNOW GOOSE COMPLEX. Graham Cooch	72
General Notes	
Observations of Pellet-Casting by Horned and Pied-billed Grebes. Robert W. Storer The Kestrel (Falco tinnunculus) in the New World. R. Pinchon and Charles Vaurie Three Further Records of Parasitic Egg Laying by Ducks. Lloyd B. Keith Night Migration at 4,200 Meters in Venezuela. William H. Phelps Natural Longevity Record for a Bobwhite. Halsey M. Marsden. Additions to the Guatemalan Bird List. Hugh C. Land and Larry L. Wolf A Subspecies of Torreornis inespectata from Cuba. Matthew J. Spence and Barton L. Smith Unusual Feeding Habit of Boat-tailed Grackle. Charles E. Carter. First Blue Grosbeak Collected in Ontario. James Woodford and D. H. Baldwin. Duetting by Paired Brown-headed Cowbirds. Hervey Brackbill Shadow Boxing by Brown-headed Cowbirds. Hervey Brackbill The Caracara Nesting in Arizona. Seymour H. Levy.	90 92 93 93 94 94 95 97 97 97 98 99
Albinism in the Small White-Cheeked Geese. Richard E. Marquardt	
Reviews	
RECENT LITERATURE. Edited by Frank McKinney	109
Notes and News	122
Correspondence	123
Obituary	123
NUMBER 2	
THE DEVELOPMENT OF VISUAL DISCRIMINATION PATTERNS IN THE CROUCHING REACTIONS OF NESTLING GRACKLES. George B. Schaller and John T. Emlen, Jr.	125
AN ANCIENT PUEBLO TURKEY, A. W. Schorger	
A Nesting of the Least Flycatcher. Margaret M. Nice and Nicholas E. Collias	

Notes on the Behavior of Three Cotingidae. Barbara K. Snow	150
Vestiges of a Proprietary Interest in Nests by the Brown-headed Cowbird Parasitizing the Kirtland's Warbler. $Harold\ F.\ Mayfield.$	
Some Federal Contributions to Bird Conservation during the Period 1885 to 1960. Daniel L. Lecdy	
The Breeding Biology of Shorebirds on Bylot Island, Northwest Territories, Canada. William $H.$ Drury, $Jr.$	
A CONTRIBUTION TO THE LIFE HISTORY OF THE CLAY-COLORED SPARROW. Glen	
PROCEEDINGS OF THE SEVENTY-EIGHTH STATED MEETING OF THE AMERICAN ORNITHOLOGISTS' UNION. H. G. Deignan, Secretary	
TREASURER'S REPORT FOR THE PERIOD AUGUST 1, 1959-JULY 31, 1960	239
Report of the Research Committee for 1960	242
REPORT TO THE AMERICAN ORNITHOLOGISTS' UNION BY THE COMMITTEE ON BIRD PROTECTION, 1960.	
GENERAL NOTES	
Relationships of the Cinereous Harrier. Dean Amadon	
Notes on Fossil Tinamous. Pierce Brodker!	-
On the Supposed Nesting of the Rhinoceros Auklet near Metlakahtla, Alaska. Rudolf H. Drent.	
Specimen of the Yellow-green Vireo from Texas. Larry L. Wolf	
Another Probable Record of an Eskimo Curlew on Galveston Island, Texas. Victor	
L. Emanuel	
Two Unusual Bird Records for California. Laurence M. Huey	
Somateria mollissima v. nigra in Minnesota. Robert W. Dickerman and Forrest B. Lee Aggressiveness of Migrant Myrtle Warblers toward Woodpeckers and Other Birds.	260
- Lawrence Kilham	
A Note on the Pectoral Muscles of Birds. Nagahisa Kuroda	261
Wintering Tennessee Warblers. John L. Bull	
Hudsonian Godwit (Limosa haemastica) in Puerto Rico. Nathan F. Leopold	
Caspian Terns in Jamaica. C. Bernard Lewis First Record of the Least Frigate-bird (Fregata ariel) in North America. Dorothy	264
E. Snyder An Example of the Whisper Song of the Gray Jay (Perisoreus canadensis). O. E.	265
Devitt	265
The Effect of Parasitism by the Brown-headed Cowbird on Empidonax Flycatchers In Michigan. Lawrence H. Walkinshaw	266
Weights and Measurements of Organs of Bonin Island Petrels, Pterodroma leucoptera hypoleuca. Harvey I. Fisher.	
Virginia Rail (Rallus limicola limicola Vieillot) Breeding at Vermilion, Alberta. James K. Lowther	20,5
Plumage Peculiarity in Cedar Waxwing. Henri Ouellet	271
Behavior of a California Gull Devouring a Juvenile Coot. Nicholas J. Chura	
Woodcock Nesting in Brazos County, Texas. William B. Davis	
Recovery of a Crippled Gadwall. Olan W. Dillon, Jr.	
Late Feeding of Young Lapland Longspur in New York. Sally F. Hoyt.	274
A Second Egg Tooth in a Mourning Dove? Wilmer J. Miller	

Contents of Volume 78

An Old New York Record for the White Pelican. Constance D. Sherman	
Davis (Comment by F. Haverschmidt)	276
Reviews	279
RECENT LITERATURE. Edited by Frank McKinney	290
Notes and News	301
Correspondence	303
NUMBER 3	
BIRDS OF AMCHITKA ISLAND, ALASKA. Karl W. Kenyon	205
THE MIGRATION OF LAPLAND LONGSPURS TO ALASKA. Laurence Irving	
Temperature Regulation in Nesting Bonin Island Petrels, Wedge- tailed Shearwaters, and Christmas Island Shearwaters. Thomas R. Howell and George A. Bartholomew	343
Salivary Glands in the Gray Jays (Perisoreus). Walter J. Bock	355
Aggressive Neglect as a Factor in Interspecific Competition in Birds.	366
THE GENERA OF AMERICAN GROUND DOVES. Richard F. Johnston	372
The Connecticut Warbler in Michigan. Lawrence H. Walkinshaw and William A. Dyer	379
NEST-SITE TENACITY AND HOMING IN THE BUFFLEHEAD. Anthony J. Erskine	389
Adrenal and Thyroid Weights in Birds. Frank A. Hartman and Katharine A. Brownell	397
General Notes	
A Tern New to the United States. William B. Robertson, Jr., Dennis R. Paulson, and C. Russell Mason. Records of Two Migrant Waterfowl for Puerto Rico. Virgilio Biaggi, Jr., and	-
Francis J. Rolle Yellow-nosed Albatross off the Coast of Long Island, New York. John L. Bull Two Noteworthy Records for California. Laurence M. Huey Recent Additions to the Avifauna of Alberta. W. Ray Salt Comparison of Female Mallard with Female New Mexican Duck. William S. Huey	425 426 427
An Enigmatic Northward Migratory Flight off North Carolina in September. Jack P. Hailman Interspecific Relationships among Birds. Aryan I. Roest Nest-Shifting Behavior of the Ashy Wren-Warbler. J. C. George. A New Method of Preserving Bird Specimens. Robert A. Norris Dichromatism in Juvenal Yellow Warblers. William E. Southern. Old Record of Baikal Teal in North Carolina. Paul W. Sykes, Jr. Recent White-tailed Kite Record in Texas. Robert F. Mason, Jr. Unusual Behavior of House Wren. Charles S. Preble.	433 435 436 440 441 442
Reviews	
RECENT LITES 2. Edited by Frank McKinney	455
NOTES AND NEWS	460

OBITUARY 471

NUMBER 4

INTERSPECIFIC PREENING INVITATION DISPLAY OF PARASITIC COWBIRDS. Robert K. Selander and Charles J. La Rue, Jr	473
Water Economy of the California Quail and Its Use of Sea Water. George A. Bartholomew and Richard E. MacMillen	
Flight Energy and Estimated Flight Ranges of Some Migratory Birds. Eugene P. Odum, Clyde E. Connell, and Herbert L. Stoddard	515
Esophageal Diverticula in the Redpoll, Acanthis flammea. Harvey 1. Fisher and Eleanor E. Dater	528
FOOD CONSUMPTION IN RELATION TO HABITAT IN BREEDING CHICKADEES. H. N. Kluyver	532
GRACE'S WARBLER IN MEXICO. Allan R. Phillips and J. Dan Webster	551
A Revision of Grace's Warbler. J. Dan Webster	554
THE EARED POOR-WILL. W. J. Schaldach, Jr., and Allan R. Phillips	
Nesting Activities of the Red-Footed Booby in British Honduras.	
Jared Verner	573
The Songs and Calls of the Wood Thrush. Aretas A. Saunders	595
BURFORD LAKE, NEW MEXICO, REVISITED. William S. Huey and James R. Travis	
Hybrids among the Fringillid Genera Junco-Zonotrichia and Melospiza. Robert W. Dickerman.	627
General Notes	
Lipase Activity in the Heart Muscle of a Migratory and a Nonmigratory Bird. J. C. George and P. Thomas Type. Tail Molt of the Saw-whet Owl. Charles T. Collins.	633
A Curtailed Postjuvenal Molt in the Steller Jay. Frank A. Pitelka	634
Eugene Eisenmann New Records in Micronesia for the Bar-tailed Godwit and Black-crowned Night Heron. John H. Brandt.	
First Tufted Duck Seen in Oregon. James G. Olson	638
A Record of the Yellow Rail from Dallas County, Texas. Warren M. Pulich	639
Dendroica dominica stoddardi from South Carolina. Edward von Siebold Dingle.	640
A White-winged Scoter Specimen from Alabama. Thomas Z. Atkeson	640
Recovery of Bird Band from an Owl Pellet. Ralph H. Town	640
Loss of 1,000 Lesser Sandhill Cranes. George W. Merrill. Observation of Avian Pox in a Yellow-shafted Flicker. Ronald F. Labishy and	641
Stuart H. Mann	642
A Method of Netting Birds at Open Nests in Trees. Val Nolan, Jr	643
Peregrine Falcon Hunting Bats While Wintering in Brazil. Helmut Sick	646
Reviews	649
RECENT LITERATURE. Edited by Frank McKinney	
Notes and News.	
Correspondence	670
INDEX TO VOLUME 78. Prepared by Col. L. R. Wolfe.	~ ~
in the state of the state of the L. A. Wolfe	0/3

